



Microwave Town Company, LLC

MTPA50125235501

500MHz-2500MHz 100Watt Broadband Power Amplifier

Features: Multi-octave Broadband, High Output Power, High Reliability

Applications: Test & Measurement, SATCOM, EW

Test condition: +30VDC, +25° C case temperature

Specification	Unit	Min.	Typical	Max.
Frequency	MHz	500		2500
Gain	dB		35	
Gain flatness	+/-dB		2	
Gain variation over temp	+/-dB		2	
Input Return Loss	dB		-10	-7
Maximum Input Power	dBm			10
Efficiency (@ Psat)	%		35	
Output Power	W		120	
Output VSWR			2:1	
Harmonics	dBc		-20	
Spurious Signals	dBc		-80	
Voltage	V	28	30	32
Temperature	° C	-20		50
Dimension	mm ³		180X105X24	
Interface			SMA (female)	

Grounding

Chassis

Cooling

Adequate Heat Sink Required

Specifications subject to change without notice

DC AND INTERFACE CONNECTOR PIN ASSIGNMENT

- ◇ Pin 2 Current Monitor
- ◇ Pin 3 Temperature Monitor
- ◇ Pin 4 Blanking
- ◇ Pin 5 VDD +30 VDC
- ◇ Pin 6 VDD +30VDC
- ◇ Pin 7 VDD +30VDC
- ◇ Pin 8 Ground
- ◇ Pin 9 Ground
- ◇ Pin 10 Ground

BLANKING	RF OUTPUT
TTL LOGIC "0"	ON
TTL LOGIC "1"	OFF